

#### Contraception

Susan C. Brunsell, MD
Department of Family
Medicine
Georgetown University



### Natural Family Planning

- ➤ Determine ovulation by:
  - calendar method
  - ovulation method
  - basal body temperature
  - symptothermal
- Formal training is strongly encouraged
- Regular, predictable cycles not required



- > TEMPORARY method if:
  - ▶ Breast milk is sole means of nutrition
  - Menses have not returned
  - □ Infant is <6 mos old
- Schedule appointment at 4-6 months postpartum to discuss contraception
- Have back-up contraception planned



### Condoms







- Counsel RE: appropriate use
  - Women should buy their own condoms
  - Avoid oil-based lubricants
  - Be gentle!
  - Natural membrane condoms do not protect against STDs
  - Store in cool dry place

# Condoms

- Allergy
  - ▶ 17% healthcare workers have latex allergy
  - use polyurethane condom
  - use natural membrane condom w/ latex condom
- What if condom breaks?
  - insert spermicide
  - consider emergency contraception
- Spermicide: ? Increased HIV transmission?



### Diaphragm

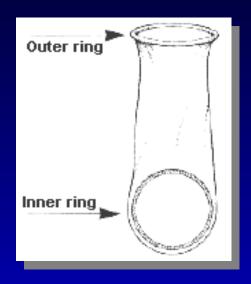


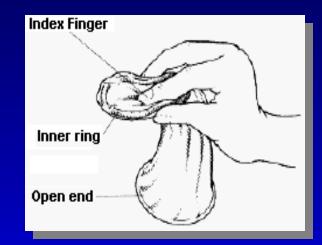


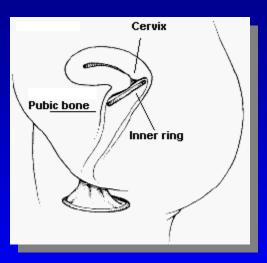
- ➤ Increased risk of UTIs
  - alteration in vaginal flora and mechanical effect
  - void after intercourse
  - consider suppressive antibiotics
- Avoid oil-based lubricants
- Cervical Cap and Sponge
- Lea's Shield



### Female Condom: "Reality"









#### Female Condom

- Can insert up to 8 hours prior to intercourse
- Do not use with condom
- Can use spermicide, but not necessary
- Remove immediately after intercourse
- Do not reuse







### Emergency Contraception

- Three options:
  - Combined oral contraceptive: Yuzpe Method
    - Lo-Ovral 4 pills, rep
    - Preven
  - Progestin only pill
    - Plan B
  - IUD (Paragard)
    - inserted w/in 5 day







### Emergency Contraception

- Nausea
  - Use antiemetic before first dose
  - If >1 hr from dose do not need to repeat
  - Use Plan B
- Amenorrhea: r/o pregnancy
- Pregnancy: no increase in rate of fetal anomalies



- Estrogen: cycle control
  - ethinyl estradiol: 20-50 mcg
  - mestranol: 50 mcg
    - must be converted to e.e. to be active
- Progestins: contraceptive action
  - several from which to choose
  - "third generation"
    - desogestrel, norgestimate
  - drospirenone ("Yasmin")





- Absence of withdrawal bleeding
  - R/O pregnancy
  - reassurance
  - switch to newer progestin or triphasic
- Acne
  - decrease androgen effects
  - increase estrogenic effects

# Combined Oral Contraceptives

- Breakthrough bleeding
  - counsel RE: missed pills, decreases after 3 mos
  - alter progestin
    - try 3rd generation
    - increase potency if midcycle bleeding
  - alter estrogen
    - increase if midcycle bleeding
    - try Estrostep if bleeding precedes menses
    - try Mircette if bleeding follows menses

## Combined Oral Contraceptives

- Venous thromboembolic complications
  - increased risk if: >50 yrs, smoker, sedentary/overweight, HTN, diabetes, desogestrel ??
  - risk of DVT: 3/10,000
  - risk of stroke: 3/100,000
  - stop OCPs for 4 weeks if undergoing MAJOR surgery



- Breast cancer: slight increased risk
- Cervical cancer: slight increased risk
- Headaches: menstrual migraines
- Weight gain: no causal relationship
- Liver-inducing medications: use in combination with barrier method

## Combined Oral Contraceptives

- Extended Use Oral Contraceptives
  - ➤ 63-84 active pills in a row, followed by hormone-free week (Seasonale or monophasic)
  - For women who desire fewer menstrual cycles
    - menstrual/premenstrual symptoms
    - on enzyme-inducing meds (rifampin, phenytoin)
    - heavy menstrual bleeding
  - Breakthrough bleeding: 50%



## Transdermal Contraception







## Transdermal Contraception

- One patch weekly for 3 weeks, followed by patch free week
- Cycle control and side effects similar to OC
- Efficacy similar to OC
- Decreased efficacy in women >90 kg. but still more effective than barriers



## Vaginal Ring







- One size fits all
- Removed after 3 weeks: reliable withdrawal bleed
- Cycle control, side effects, efficacy similar to OCs
- Contraceptive efficacy drops precipitously when ring removed











- Paragard ("copper T")
  - effective for 10 years
  - no hormones
  - toxic to sperm, inhibition of tubal transport
- Mirena (levonorgestrel)
  - effective for 5 years
  - decrease in menstrual blood loss
  - thickening of cervical mucus



- Expulsion: 2-10% in first year
  - missed period may be first sign
  - pt should regularly check for strings
- Pregnancy
  - related to high incidence of miscarriage
  - IUD should be removed immediately
  - if spontaneous or voluntary ab recommend prophylactic antibiotics (doxycycline)



- Bleeding/spotting
  - usually improves after 1st three months
  - examine for cause, including pregnancy
  - menorrhagia
    - ► NSAIDs
    - estrogen or OCPs
  - remove IUD for:
    - suspected endometritis
    - to r/o endometrial cancer



#### ➤ PID

- risk highest in first 20 days after insertion
- incidence of PID NOT decreased with prophylactic antibiotics
- if women diagnosed with PID:
  - consider hospitalization
  - treat with antibiotics
  - remove IUD
- risk not increased in diabetics

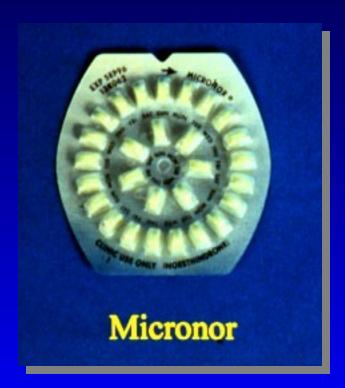


- Actinomyces on Pap
  - confirm diagnosis with pathologist
  - if symptoms of PID:
    - treat with doxycycline or ampicillin
    - remove IUD
    - U/S to R/O abscess
  - if asymptomatic can repeat Pap and treat if actinomyces persists



## Progestin-Only Pills

Unforgiving of late or missed pills





### Depo-Provera

- Depot medroxyprogesterone acetate
- No dosage adjustment for weight or concomitant drugs (eg antiepileptics)
- Suppression o decrease in bo





- Schedule injections every 12 weeks
- Develop protocol if patient late, eg:
  - check pregnancy test
  - use back-up contraception or abstain for 2 wks
  - repeat pregnancy test
- No known risk of fetal effects



- Menstrual irregularities
  - most common reason to discontinue
  - cycle with estrogen or OCPs
  - NSAIDs
- Weight gain
- Delay in return of fertility

## Lunelle

No longer available: "problems with production"



## Norplant





